

Model Exam 1

Q1 Complete:

- 1 The food relationship between cat and rat is -----
2. Salt& pepper can be mixed by ----- Or -----
3. Dissolving carbon dioxide gas in a sugar solution is a type of ----- nixture.
4. Energy is the ability to -----
5. The seven spectrum colors are -----, -----, -----, -----, -----, -----, -----
6. The prism separates sunlight into -----

Q2 Choose the correct answer:

1. The white light consists of ----- spectrum colors.
(5 - 6 - 7)
2. The -----materials don't allow the light to travel trough them& thi behind can't be seen clearly.
(transparent - translucent - opaque)
3. Each magnet has ----- pole/s.
(one - two - three)
4. The freely hanged magnet takes the ----- directions.
(North, east - North, South - North, West)

Q3 Write the scientific term:

1. The main source of light on the earth's surface.

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1. The main source of light on the earth's surface.

2. A substance which contains more than one type of particles.

3. The materials that are attracted to the magnet.

4. A method which is used to separate a mixture of Sand & iron fillings.

5 A group of seven colors appears in the air forming a rainbow colors.

Q4. You have the following objects:

Pins - nails – Paper clips - glass - chalk pieces - aluminum - copper

*** Classify them into magnetic or non- magnetic materials according to their attraction to the magnet:**

Materials that are attracted to the magnet	Materials that are not attracted to the magnet
1.	1.
2.	2.
3.	3.

Model exam 2

Q1. Write the scientific term:

1. The Phenomena in which the harmless living organisms imitate other living organisms to fear their enemies.

2. The plants which feed on tiny animals such as insects to get proteins.

3. The materials which are made of only one type of identical particles.

4. A set which is used for locating the four geographic directions.

5. The changing of the direction of light ray when it passes through two different transparent medium.

Q2. Choose from column B the suitable answer from Column A

A	B
1. Predation	a. The relationship between the bee and the flower.
2. Mutualism	b. The relationship between the crocodile and the bird.
3. Symbiosis	c. The relationship between the snake and the bird.

Q3. Give reasons:

1. Some bees look like wasps in forming strips on their bodies.

2. Although the moon is a dark body, it looks bright.

3. Iron nails are magnetic substances.

Q4. Correct the underlined word:

1. The phenomena in which a living organism can change its color is called Mimicry.

2. Light travels in curved lines.

3. The returning back (bouncing) of light when it falls on a plane mirror is called light refraction.

4. Like magnetic poles attract each others.

5. Red, green and blue are called secondary colors.

6. The Dynamo changes kinetic energy into heat energy.

Model exam 3

Q1 Name three of the shapes of man- made magnet:

1.
2.
3.

Q2. Complete:

- 1 When you move a coil between the 2 poles of the magnet an
..... is generated in the coil.
2. The relationship between the bird and the hippopotamus is
3. Light travels in lines.
4. The prism separates sunlight into
5. The is used in making electric bells and electric winches.

Q3 Give reasons:

- 1 Green plants are called autotrophic (self feeder) organisms.
.....
2. The formation of the shadow.
.....
3. The relationship between the bee& the flower is mutualism.
.....

Q4 Suggest the mixture which can be separated by:

1 Magnetic attraction

----- and -----

2. The Separating funnel

----- and -----

3. Filtration process:

----- and -----

4. Evaporation process:

----- and -----

Q5. Choose the correct answer:

1 The dynamo which is fixed in the bicycle touches the

(seat --- pedal --- tire)

2. The greatest magnetic force of the magnet occurs at its-----

(poles ----- middle --- none of them)

3. The energy that can be seen is the ----- energy.

(electric ----- magnetic ----- light)

4. The ----- eject a black color fluid in water when attacked by its enemies.

(Chameleon --- Cuttlefish --- Frog)

5. The ----- is an example of liquid- liquid mixture.

(Air --- water and oil ----- water and sand)

Model Exam 4

Q1 Give reasons:

1. Although the moon is a dark body, it looks bright.
-

2. The spoon appears broken when it is placed in a cup of water.
-

Q2 Correct the underlined word:

1. Red, green and blue are called secondary colors.
-

2. The prism separates the white light into six spectrum colors.
-

3. The moon is the main source of energy on Earth's surface.
-

Q3 Complete:

1. The seven spectrum colors are:
- , , ,
- , ,

2. Every magnet has ----- poles.

3. The like magnetic poles ----- each other, while the dislike magnetic poles ----- each other.

4. The ----- is used for locating the main 4 directions.

5. The ----- changes the kinetic energy into electric.

6. Air is a ----- of gases.

7. Mixture can be formed by -----, ----- &

Q4 Show how can you separate the following mixtures:

1. Sand solution:

2. Iron fillings& sand:

3. Water& oil:

4. Salt solution:

Q5 Mention the type of relationships in each :

1. The lion & the deer.

2. The Crocodile& the bird.

Model Exam 5

Q1. Choose the correct answer:

1. The relationship between the lion and the deer is -----
(Mutualism - Commensalism – Predation)
2. Like magnetic poles----- each others.
(repel – attract – don't effect)
3. The ----- is used in electric bells& cranes.
(Dynamo – Compass – electromagnet)
4. The bouncing of light rays is due to its -----
(Refraction – Reflection – Separation)
5. The relationship between the bee and the flower is -----
(Mutualism - Commensalism – Predation)

Q2. Write the function of:

1. The compass:

2. The Dynamo:

3. The Electromagnet:

Q3. Put (v) or (x):

1. Light travels in curved lines. ()
2. The relationship between the crocodile& the bird is symbiosis. ()
3. Green plants can't make their own food. ()
4. Red, green and magenta are called primary colors. ()
5. Paper clips& iron fillings are magnetic materials. ()

Q4 Complete:

1. The bee looks like wasps to ----- from enemies.
2. Camouflage is found in frogs& -----
3. The greatest magnetic force of a magnet occurs at its -----
4. The ----- separates the white light into 7 colors.
5. The ----- which energy can be seen.



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Good Luck

Model Exam (1)

Question (1):

Write down the scientific term for each of the following:

- (1) The darkened area that formed as a result of falling light on an opaque object.
- (2) The force by which the magnet attracts some materials.
- (3) A device used to convert kinetic energy into electric energy.

Question (2):

Put (✓) or (x) in front of the each statement of the following and correct the wrong ones :

- (1) ()
- (2) There are no food relationships between living organisms. ()
- (3) The interaction between among environmental components leads to unbalance of ecosystem. ()

Question (3):

Complete the following statements:

- (1) The light..... when transfers between two different transparent media.
- (2) The magnetic forces concentrated at of the magnet.

Question (4):

Give reason for each of the following

- (1) The picture formed through narrow holes is Inverted minimized .
- (2) Wood is non-magnetic material.

Model Exam (2)

Question (1):

Write down the scientific term for each of the following:

- (1) The materials that doesn't allow light to pass through, and objects can't be seen through it.
- (2) The space around the magnet in which the effect of magnetic force appears.
- (3) A process needs the presence of solvent and solute.
- (4) Food relationship between living organism devoured other organism.

Question (2):

(v) (x)

- (1) Salt and water are mixed together by stirring or heating. ()
- (2) Filtration is used to separate soluble solid materials. ()
- (3) The balance of ecosystem occurs due interfere of man ()

Question (3):

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Compare between each of the following in a table (give examples):

- (1) Magnetic materials and non-magnetic materials.
- (2) Parasitism and saprophytism.

Question (4):

Complete the following statements:

- (1) Compass is used in
- (2) From primary light and.....
- (3) is used to separate a mixture of oil and water.

Model Exam (3)

Question (1):

Choose the correct answer from between brackets:

- (1) Light travels in lines. (curved – refracted – zigzagged – straight)
- (2) From magnetic material (aluminum – nickel – copper – wood)
- (3) From examples of primary light (yellow – magenta – green – violet)
- (4) The picture formed through a narrow hole is (upright minimized – inverted minimized – inverted magnified – upright magnified)
- (5) The substance which dissolves in a solvent is called

Question (2):

(solute – solvent – solution – mixture)

Put (✓) in front of the right statement and (x) in front of the wrong ones:

- (1) Ecosystem is composed of non-living things like water and living organisms like plants.
- (2) The unlike magnetic poles repel and the like ones attract.
- (3) Mixture can be formed by shaking, grinding or stirring.
- (4) The north pole of the compass refers to the south geographical pole on the earth.

Question (3):

Complete the following:

- (1) is from the extinct organisms due to the changing the natural conditions.
- (2) The external parasites that suck blood from the body is and the internal parasite like
- (3) The dynamo is used to convert the energy to energy.
- (4) From the factors affecting the solubility process and

Question (4):

Illustrate the difference between the following with an example:

- (1) Transparent and opaque materials.
- (2) Pure substance and mixtures.

Model Exam (4)

Question (1):

Choose the correct answer from between brackets:

- (1) The natural magnet is one of the ores. (copper – iron – carbon)
- (2) objects have the same colour of light which the objects reflect.
(transparent – semi-transparent – opaque)
- (3) The solute in the mixture of chocolate and milk is
(water – milk – chocolate)
- (4) From examples of saprophytic organisms (fungi – rabbit – plant)
- (5) The types of parasites are (external – internal – all the previous)

Question (2):

Put (✓) in front of the right statement and (x) in front of the wrong ones :

- (1) The main source of light on earth surface is electrical bulbs.
- (2) As the temperature increases, the solubility becomes slowly.
- (3) Air is a mixture of important and useful gases to man.
- (4) Predation is a temporary process.

Question (3):

a- Give reason for each of the following:

- 1- The box of compass isn't made from iron.
- 2- A piece of marble isn't disappear when putting it in water.

b- Mention the name of the used tool:

- 1- A tool that determine north and south directions.
- 2- A tool that separates a mixture of oil and water.

Question (4):

a- Choose from column (B) what suits column (A):

(A)	(B)
a- Refraction	- separates the solid substances that dissolved in solution.
b- Yellow light results	- don't mix.
c- Evaporation	- autotrophic.
d- Water and oil	- occurs when light transmit through two transparent mediums.
e- Green plants	- from mixing red and green lights.

b- Write the scientific term for each of the following:

- 1- The energy that we can see.
- 2- A process by it we can separated the iron materials from sand.
- 3- An area that have most magnetic powerful force.

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Choose the correct answer between brackets:

- 1 The banana fruit appears when you look at it from a violet transparent glass sheet.
 - a. red
 - b. yellow
 - c. green
 - d. black
- 2- Which of the following lights are considered as secondary lights?
 - a. blue
 - b. yellow
 - c. red
 - d. green
- 3 All the following are factors that affecting in the solubility process except
 - a. the kind of solute
 - b. temperature
 - c. texture
 - d. stirring
- 4 Air is a mixture.
 - a. liquid
 - b. gaseous
 - c. solid
 - d. all the previous
- 5 The interaction between a cat and a rat is an example of
 - a. saprophytism
 - b. parasitism
 - c. predation
 - d. mutualism
- 6- From extinct organisms due to the changing of natural conditions of environment are
 - a. insects
 - b. dinosaurs
 - c. fish
 - d. birds

7- Light travels in lines.

- a. broken
- b. curved
- c. zigzag
- d. straight

8- Saprophytes get their food by decomposing the bodies of the organisms.

- a. living
- b. strong
- c. weak
- d. dead

9- Green plants are considered as organisms.

- a. decomposers
- b. consumers
- c. producers
- d. nonliving

10- When white light falls on a red rose, it reflects the light.

- a. white
- b. red
- c. yellow
- d. black

11- From the examples of dark objects

- a. air
- b. glass
- c. plastic
- d. wood

Complete the following statements:

- 1- In salty solution, the salt is called while the water is called
- 2- Mixture can be formed by shaking, or
- 3- is considered as a common solvent because of its ability to dissolve many substances.
- 4- There are two types of the light reflection and reflection.
- 5- Like magnetic poles whereas dislike magnetic poles
- 6- is an extinct animal due to the changing of environmental conditions.
- 7- Dynamo changes energy into energy.

- 8- The material in which light can't transmit through is called while the material in which light can transmit through is called
- 9- Salty solution can be separated by
- 10- The strength of the magnet concentrated at and vanished at
- 11- From the primary lights are green and Light.
- 12- The solution consists of and
- 13- The formed image through narrow hole is and
- 14- The materials that are attracted to the magnet are calledwhile that are not attracted to the magnet are called
- 15- White light falls on the green grass; the grass must absorb exceptlight only.
- 16- The compass consists offreely move.

Write the scientific term for each of the following:

- 1- A temporary relationship between two living organisms that ends by devouring the prey or a part of it.
- 2- The materials that get attracted to the magnet.
- 3- The space around the magnet in which the effect of magnetic force appears.
- 4- The change in the direction of light rays when they pass through the separating surface between two transparent media.
- 5- A temporary relationship between two different organisms with a benefit to one and a harm to the other.
- 6- A tool used to locate the main four geographical directions.
- 7- A relationship between two living organisms that benefit from each other.
- 8- A region around the magnet at which the effect of the magnetism appears.
- 9- Living organisms which decompose dead organisms.
- 10- Any natural area that includes living organisms and non-living things.
- 11- Materials that allow light to pass through it.
- 12- A process that requires to complete it, existence of solvent and solute.
- 13- A region on the magnet, where the magnetic force is maximum.

Put (✓) in front of the correct statement or (x) in front of the wrong statement of the following:

- 1- The
- 2- The formed image through narrow holes is inverted and minimized.
- 3- The north pole of the freely suspended magnet points to the south geographical direction.
- 4- Primary light colors are formed by mixing yellow and blue light.
- 5- Natural magnet is a black color stone.
- 6- Dinosaurs are considered the most famous extinct animals because of changing of the natural conditions.
- 7- The oil is separated from water by filtration.
- 8- Magnet free movement always takes a north south direction.
- 9- When mixing the primary lights together, we get the white light.
- 10- The shaking, grinding and stirring are from the methods of mixtures composition.
- 11- Mushroom and bread mold fungus are considered from the examples of analyzed organisms.
- 12- Copper is nonmagnetic material.

Give reason each of the following:

- 1- The rainbow appears in the sky after rain fall.
- 2- Time of dissolving sodium chloride differs from that of dissolving sodium carbonate.
- 3- Some living organisms can change their color to simulate the colors of the environment where it lives.
- 4- A banana fruit seems to be yellow.
- 5- Atmospheric air is a mixture.
- 6- Magnet attracts nickel and doesn't attract aluminum.
- 7- The air is transparent material.

Mention importance or use or function for each of the following:

- 1- Saprophytic organisms.
- 2- Electromagnet
- 3- Compass.
- 4- Triangular Prism.

What happen in each case of the following:

- 1- Mixing red light with green light.
- 2- Passing of electric current in a wire wrapped around a rod of soft iron.

Correct the underlined words for each of the following:

- 1- Water and oil mixture can be separated by filter paper.
- 2- Aluminium gets attracted to the magnet.
- 3- When we hold a magnet freely, one of its poles is trying to search for the east direction.
- 4- A separating funnel is used to separate light to seven colours.
- 5- Light is traveled in spiral lines.
- 6- When light passes from air to glass then it reflects.
- 7- Filter paper is used to separate between water and oil mixture.
- 8- In the salty solution, the salt is called solvent.

Mention the name of equipment (tool) that can be used in each case:

- 1- Converting of kinetic energy into electric energy.
- 2- Fixing the north and south directions.
- 3- Separating oil and Water mixture.
- 4- Locating the main four geographical directions.
- 5- Separation of a mixture of iron and sand.
- 6- Separation the white light into seven spectrum colours.

Choose from column (B) what suits in column (A):

(A)	(B)
a- Mutualism	1- A relationship between two different types of living organisms, one benefits from the other and harms it.
b- Commensalism	2- Has different shapes.
c- Parasitism	3- The relationship between two different types of living organisms, both of them get benefit from each other.
d- Artificial magnet	4- A mixture of water and minerals such as calcium and magnesium.
e- Mineral water	5- The relationship between two different types of living organisms, one of them benefits from the other and doesn't harm it.